IN THE CLAIMS

Please amend the claims as follows, substituting any amended claim(s) for the corresponding pending claim(s):

1   1.   (Currently Amended) A method to identify a modulation format of a data frame received from a

2   servicing base station by a wireless terminal in a cellular wireless communication system, the method

3   comprises:

4   receiving a first Radio Frequency (RF) burst of the data frame from the servicing base station,

5   wherein the first RF burst carries a plurality of modulated symbols and a burst index;

6   when the burst index of the first RF burst comes within a predetermined index value,

7   extracting a training sequence from the first RF burst, wherein the training sequence

8   ~~comprises modulated symbols~~ includes modulated symbols;

9   processing the training sequence assuming a first modulation format to produce a first

10   channel energy;

11   processing the training sequence assuming a second modulation format to produce a

12   second channel energy;

13   determining a greater channel energy from the first channel energy and the second

14   channel energy;

15   receiving a subsequent RF burst within the data frame from the servicing base station, wherein

16   the subsequent RF burst carries a plurality of modulated symbols and a subsequent burst index;

17   when the subsequent burst index comes within the predetermined index value,

18   processing the training sequence assuming the first modulation format to produce a

19   subsequent first channel energy;

20   accumulating the subsequent first channel energy with the first channel energy to produce

21   an accumulated first channel energy;

22   processing the training sequence assuming the second modulation format to produce a

23   subsequent second channel energy;

24   accumulating the subsequent second channel energy with the second channel energy to

25   produce an accumulated second channel energy;

26   determining a greater accumulated channel energy from the first accumulated channel

27   energy and the second accumulated channel energy; and

28   identifying the modulation format of the data frame as corresponding to the greater accumulated

29   channel energy.

1   2.   (Currently Amended) The method of claim 1, wherein:

2   processing the training sequence(s) assuming the first modulation format to produce the first

3   channel energy ~~further comprises derotating the symbols~~ further includes derotating the symbols within

4   the training sequence; and

5   processing the training sequence(s) assuming the second modulation format to produce the

6   second channel energy ~~further comprises derotating the symbols~~ further includes derotating the symbols

7   within the training sequence.

1   3.   (Original) The method of claim 2, wherein:

2   the first modulation format is GMSK; and

3   the second modulation format is 8PSK.

1   4.   (Previously Presented) The method of claim 1, wherein extracting the training sequence further

2   comprises:

3   processing the first RF burst to produce a baseband signal; and

4   extracting the training sequence from the baseband signal.

     5.   (Cancelled)

1   6.   (Currently Amended) The method of claim 1, further comprising:

2   receiving a ~~subsequent RF burst~~ further subsequent RF burst within the data frame from the

3   servicing base station, wherein the ~~subsequent RF burst~~ further subsequent RF burst carries a plurality of

4   modulated symbols;

5   identifying a modulation format of the ~~subsequent RF burst~~ further subsequent RF burst based on

6   accumulated channel energies;

7   comparing the identified modulation format of the ~~subsequent RF burst~~ further subsequent RF

8   burst to the identified modulation format of previous RF bursts of the data frame;

9   demodulating the ~~subsequent RF burst~~ further subsequent RF burst according to the identified

10   modulation format of ~~subsequent RF burst~~ further subsequent RF burst; and

11   discarding the prior RF bursts of the data frame when the identified modulation format of the

12   ~~subsequent RF burst~~ further subsequent RF burst compares unfavorably to the identified modulation

13   format of prior RF bursts.

     Claims 7-37.   (Cancelled)